

What is claimed is:

1. An assay device for detecting one or more target ligands in a sample, comprising:

a nonporous surface comprising one or more particles immobilized to said surface, wherein said particles comprise receptors immobilized thereon capable of binding said one or more target ligands.

2. An assay device according to claim 1, wherein said receptors are antibodies, or fragments thereof.

3. An assay device according to claim 1, wherein said surface is a textured surface comprising one or more depressions and/or protrusions extending between 1 nm and 0.5 mm from said surface.

4. An assay device according to claim 3, wherein one or more of said particles are entrapped within depressions and/or between protrusions on the textured surface.

5. An assay device according to claim 1, wherein said particles are selected from the group consisting of latex particles, silica particles, zirconia particles, alumina particles, titania particles, ceria particles, metal sol particles, and polystyrene particles.

6. An assay device according to any one of claims 1-5, wherein said nonporous surface forms a capillary space between said nonporous surface and a second surface spaced at a capillary forming distance from said nonporous surface.

7. An assay device according to any one of claims 1-5, wherein said nonporous surface is not part of a capillary space.